

EEC ACOUSTIC SCREENS

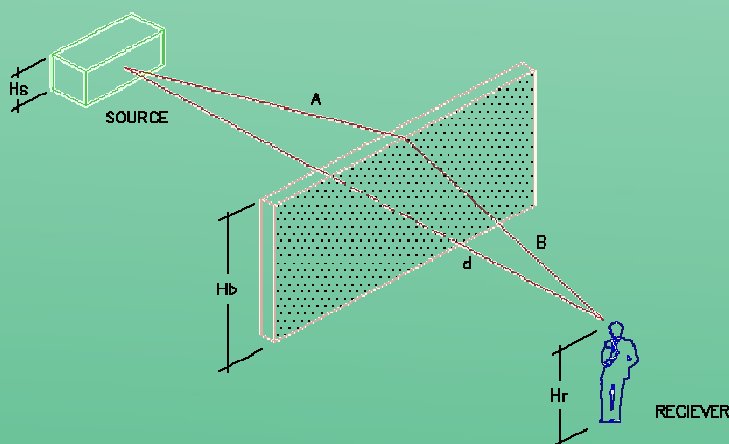


PERFORMANCE

Screen heights are calculated for every application based on the source and receiver locations and required levels of attenuation.

The acoustic performance is determined by the Maekawa formula based on the Fresnel number: the relative path difference $A + B - d$ provided by the screen as a function of the wavelength of the noise source.

Hence a screen taller than the source and receiver locations and in close proximity to the source can achieve attenuation levels in excess of 15-20 dB(A)



CONSTRUCTION

The screen panels have a double-skin construction with an overall thickness of either 50mm or 100mm. The outer surface is manufactured from not less than 18 swg mild steel sheet, and the inner surface 22 swg perforated, galvanised steel.

The overall mass of the panels is at least 25kg/m^2 , ensuring that direct path attenuation is greater than the typical diffraction attenuation.

The internal face, being acoustically absorptive, can increase the standard attenuation provided by the screen by up to an additional 8 dB

The bonded mineral fibres which are used as the acoustic infill of the panelwork have a Class 1 surface of flame rating in accordance with the BS 476 Part 7 test standard. No adhesives are used in the panelwork construction

APPEARANCE & OPTIONS

Our standard Acoustic Screens are constructed from solid panelwork finished to any standard RAL or BS colour - Special finishes available on request.

Penetrations for pipework, cables and ducts, etc, will be made where possible during manufacture, extract acoustic infill and closure sealing plates supplied with panels.

Where doors are requested for either plant removal or personnel access or maintenance they will have an acoustic performance equal to the panelwork.



quietly moving forward

Noise and Vibration Control Specialists

EEC Ltd, Richmond House, Churchfield Road, Walton-on-Thames, Surrey KT12 2TP

Tel: 01932 230940 Fax: 01932 230941 Email: info@eecnoisecontrol.co.uk www.eecnoisecontrol.co.uk